

WHAT IS CLAIMED IS:

1. A carrier for co-culturing a fertilized ovum of an animal comprising a cell incorporated type three-dimensionally reconstructed tissue for co-culturing the fertilized ovum of an animal to induce adhesion and three-dimensional growth of the fertilized ovum.

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2. The co-culturing carrier according to Claim 1, wherein the cell incorporated type three-dimensionally reconstructed tissue is reconstructed from any of cells, tissues or organs derived from animals and it contains at least one cell(s).

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3. The co-culturing carrier according to Claim 1 or 2, characterized in that the cell incorporated type three-dimensionally reconstructed tissue contains an extracellular matrix component (s) and/or a mesh network (s), in addition to the incorporated cells.

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4. The co-culturing carrier according to any one of Claims 1-3, characterized in that the cells to be incorporated in the cell incorporated type three-dimensionally reconstructed tissue are cells derived from an animal that is homogeneous or heterogeneous to the fertilized ovum.

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5. The co-culturing carrier according to any one of Claims 1-4, characterized in that the cells to be incorporated in the cell incorporated type three-dimensionally reconstructed tissue are cells derived from an endometrium.

6. The co-culturing carrier according to any one of Claims 1-5, characterized in that the cell to be incorporated in the cell incorporated type three-dimensionally reconstructed tissue are pretreated with mitomycin C.

5           7. The co-culturing carrier according to Claim 3, characterized in that the extracellular matrix component is gelated.

8. The co-culturing carrier according to Claim 3, characterized in that the mesh network is composed of any natural or synthetic thread and/or woven mass thereof.

10           9. The co-culturing carrier according to Claim 3 or 8, characterized in that the mesh network is bioabsorptive.

10. The method of culturing a fertilized ovum of an animal, characterized in that the  
15 co-culturing carrier according to any one of Claims 1-9 is introduced into a culture vessel to culture the fertilized ovum of an animal.